

schedule



Remaining tasks by group



Experimental installation & safety:

- -ODH sensors are in place, platform floor has been made leak tight to act as containment bath.
- -new gas distribution point is almost finished.
- -Grounding: see dedicated slide

Detector and tank instrumentation

- -level meters: calibrated and installed in detector (see Cosimo)
- -GN2 gas flow in tank+top-cap isolation space: all sensors installed and monitored. Insulation space purging installed (but not yet connected to gas supply).
- -high voltage: HVFT tested (see Laura, Franco)
- -CRP suspension: movement tested
- -purity monitor: ready needs one final descent in cryostat for optical FT (very fragile last thing to be installed)
- -FE pulser system: in production (see Cosimo)

Slow control PVSS, racks

Cabling almost finished. Few details like 220V power plugs need fixing.

All SC sensors are now operational and online.

Priority now on proper display of those parameters

- -online for all collaboration via DB (see Yuiry)
- -locally via PVSS in control room (see Yann)



Remaining tasks by group



Front Ends (analog and digital)

- remaining 15 AFEs have been inserted in their respective signal feedthrough (see Dario).
- uTCA crates tested (See Thierry, Jacques).
- digital cards under test at Lyon (see Dario)

DAQ, triggering and monitoring software

- air conditioning for the farm operating
- Farm essentially ready.
- Software installed on the Farm (Elisabetta)
- Data base display in progress (see Yuriy)
- Cosmic counters installed (see David/Igor)
- PMT acquisition setup (see Thorsten, Federico)
- ->need to discuss details about synchronising light and charge
- Goal of DAQ running by October 15th. Need to define exact dates for installation and final noise testing, in principle week of October 10th.

Cryogenic installation

- LN2 tank installed
- Cold: Demaco arrived on Tuesday and installing. Start with valve boxes, then piping to top-cap and piping to main supplies.
- warm: CERN contractor on site since one week. Started assembly of warm panel (i.e the panel with getter, warm pump etc..) and started discussion on Gas supply for our chimney (SGFT and HVFT GN2 supply)
- Racks installed



September



Week Numbers Sep 2016 (Paris)

Week Numbers						Sep 2016 (Paris)					
Mon	Tue	Wed	Thu	Fri	Sat	Sun					
29	30	31	1	2	3	4					
Week 35 of 2016											
5	6	7	8	9	10	11					
Week 36 of 2016											
Week 30 01 2010											
12	13	14	15	16	17	18					
		Installation o	f the warm panel and	warm piping							
			Demaco delivery of	insertion HVFT &							
			valve box +piping at	place level meters							
	L	place level illeters									
	configuration										
19	20	21	22	23	24	25					
Week 38 of 2016	installation of PVB			-deadline activated							
	1	SCFT closed		copper filter ready							
	(purification valve			for installation in b.							
to DB	box) starts			182							
Installation of the warm panel and warm piping											
DEMACO CRYOGENIC INSTALLATION -											
26	27	28	29	30	1	2					
Week 39 of 2016											
(NOOK 00 01 2010											
Installation of the warm panel and warm piping											
DEMACO COVOCENIO INICTALI ATIONI											
DEMACO CRYOGENIC INSTALLATION											
	L			1							





Week Numbers						Oct 2016 (Paris)				
Mon	Tue	Wed	Thu	Fri	Sat	Sun				
Week 39 of 2016	27	28	29	30	1	2				
3	4	5	6	7	8	9				
cut of LAr supply in all the lab										
DEMACO CRYOGENIC INSTALLATION. NO ACCES INSIDE DETECTOR OR ON TOP CAP										
	installation of pur outside electronic	ty monitor optical fi s	bre and							
10	11	12	13	14	15	16				
	test of cold and warm	piping at 14 bar (pres	ssure test of installed	piping) supervised by		ne Demaco person				
Heinzinger in position. Connect HVFT cable		stallation of DC care ommissioning of DA		FINAL INSPECTION before closing	deadline seal manhole IPNL DAQ Ready					
17	18	19	20	21	22	23				
cryogenic sensor functional tests, validate P&ID check GTA test debugging test of GTA and gas purge										
		connect last purge last flanges. DETE NOW GAS TIGHT		nd purge SGFTs	ALL SOFTWARE FOR DATA TAKIN					
24	25	26	27	28	29	30				
GAr piston purge										
start GAr purge	3x1x	1 operatio	n mode							
31	1	2	3	4	5	6				
LAr filling and cold acceptance										
					start recircula	tion process				

All sensors are operational and recording. Few items missing:

- -connect the HV cables to CAEN
- -divider board for HV-LEM
- ->See Yann



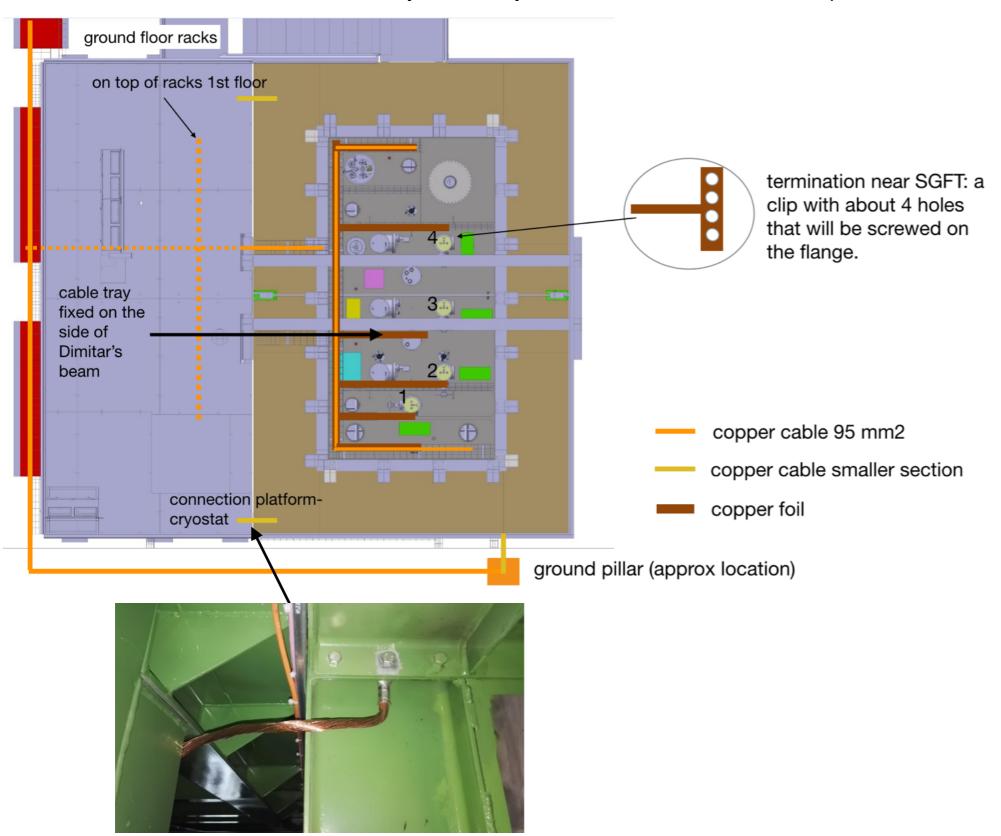
problem at the moment access is difficult because of Demaco. We should make sure not to interfere. Easier access after ~18:00 when they stop.



Top cap grounding



All in place apart from few details (see next slide)





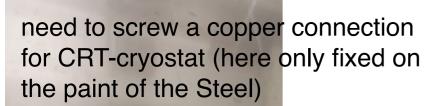


Top cap grounding



in general: any metallic structure in contact with the cryostat (which is the main ground) should be well connected to it.

Currently missing grounding:





IS gas distribution system



proximity DAQ rack

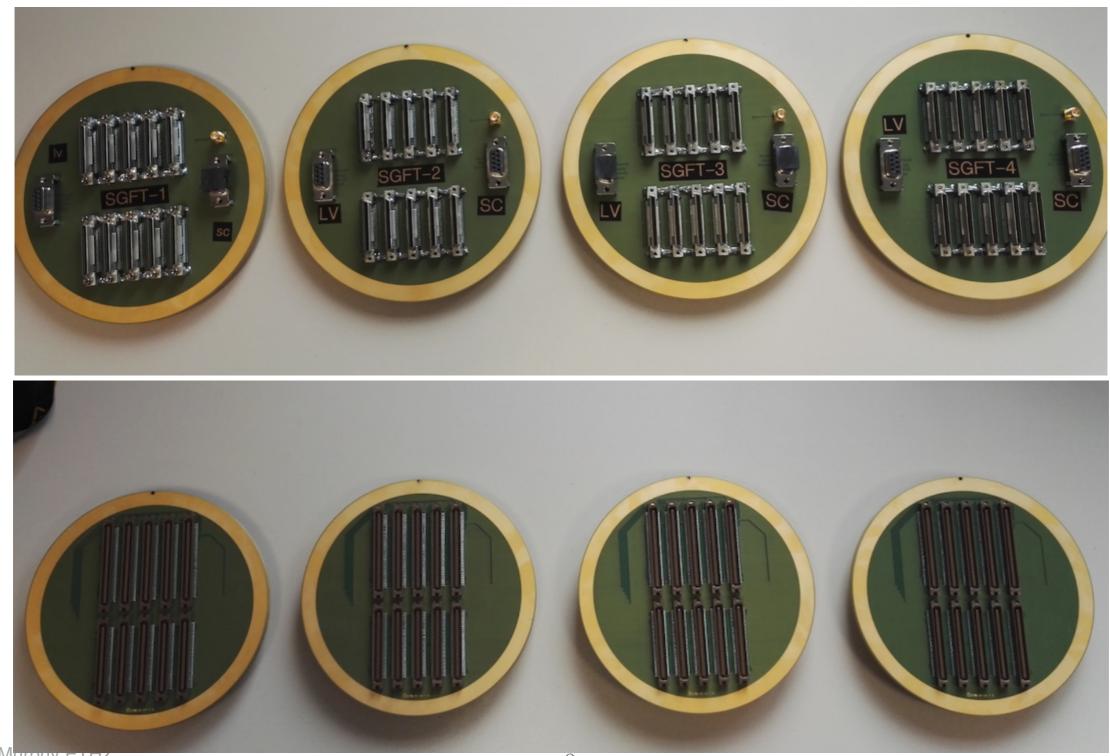




4 warm flanges ready



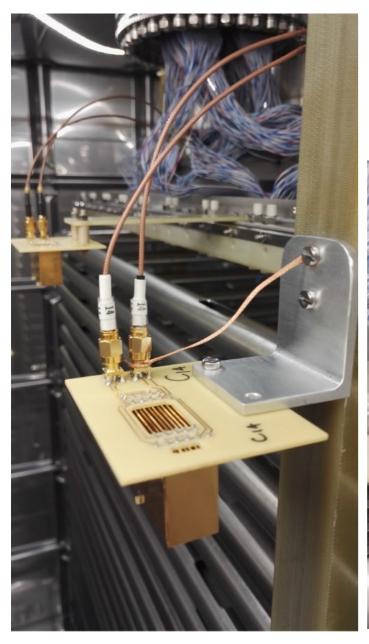
SGFT 1 has already been installed and tested on cryostat last week (see Dario). All are now installed (Franco) and need to be tested.





all level meters (6 plate on the DC + 7 plate on the CRP + coax) were calibrated and installed Friday and Monday. 2 visits Cosimo and myself. See slides from Cosimo.

Also took and wrote down precise measurements of the DC and level meters position respective positions. (will circulate the measurements soon)





So Demaco arrived on Tuesday...





and a picture from yesterday



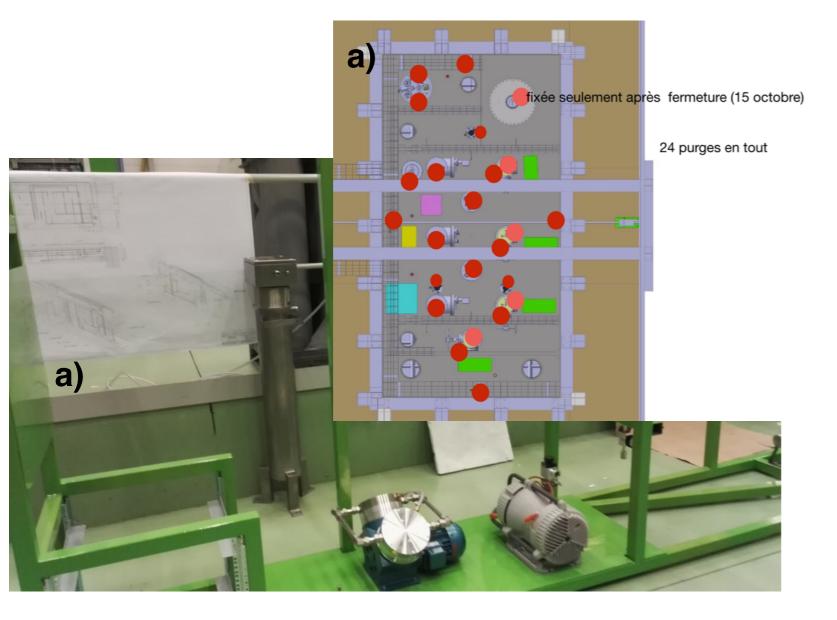


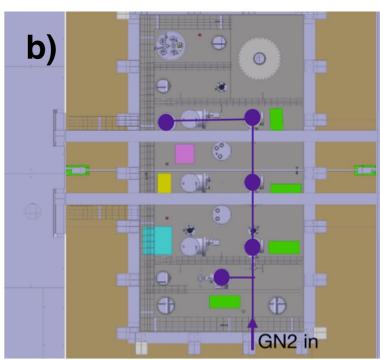
Warm piping

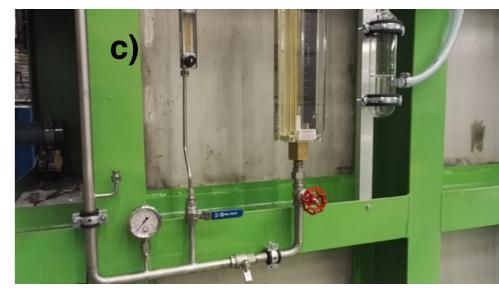


includes:

- a) the piston purge and gas recirculation (in progress, payed by CERN)
- b) distribution of the gas N2 to the required chimneys (4 x SGFT + 1x HVFT). not included in the P&ID with CERN->same company will do it as extra.
- c)gas N2 distribution of the cryostat insulation space. (done)
- d) redoing our gas distribution point outside (almost done)









Slowly migrating to operations



According to schedule from October 24th we should be in operation mode. All installation should be more or less complete. Laura M and Laura M.B will be responsible for operation.

Tentative date: first meeting on Thursday 20th

for L&L: assume we start on October 24th. Need to:



- make a detailed list of what data we want to take and when.
- maintain close contact with cryogenics to organise piston + filling procedure.
- define test and ramping up order of components (PMTs then LEMs etc..)
- need to all agree on what needs to be done to give the go-ahead for filling (no turning back after). E.g make sure we flush for long enough to remove all water traces from LEMs, etc..
- organise WA105 manpower to come on-site for help in calibrating and testing
- get and compile the operation manuals from different people.
- organise shifts and presence of experts on site.
- Alarms with cryogenics. What happens during holidays?
- keep constant contact with HSE.

• ...

Good luck!!